# Quick Reference Guide

## ISUScoreFS
## ISUCalcFS
## ISUCutterFS

01.08.2006

## Document Control

Created by:        ST INNOVATION GmbH

Wiesenring 11

04159 Leipzig-Stahmeln

Germany

Manja Richter / Christian Albrecht

## Version History

| Version | Date | Modified by | Modifications |
|---------|------|-------------|---------------|
| 1.0 | 10/07/2004 | M. Richter | Initial version |
| 1.1 | 02/03/2005 | M. Richter | Ini file and program settings added |
| 1.2 | 09/02/05 | M. Richter | Partition req (ISUCutterFS) added |
| 1.3 | 11/04/06 | M. Richter | Re-structuring of document |
| 1.4 | 01/08/06 | M. Richter | IP address correction |

# Table of Contents

# Copyright

Entire content © by ST INNOVATION GmbH.

All rights reserved.

This documentation may not be copied, translated, or reduced to any electronic medium or machine-readable form without ´s prior written consent.

# Documentation Updates

ST INNOVATION reserves the right to make improvements in the products described in this manual at any time without prior notice. Furthermore, ST INNOVATION reserves the right to revise this manual and to make changes in its content without obligation to notify any person or organization of such revision or change.

# Disclaimer

The information provided herein has been obtained from sources believed to be reliable. However, ST INNOVATION makes no representation or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose.

# 1 System Requirements

## 1.1 Hard and software requirements

### 1.1.1 ISUScoreFS with video replay

- Pentium III (1 GHz) or better, AMD processor 1 GHz, Pentium-M processor 1.4 GHz or better, AMD-M processor
- Microsoft® Windows® 2000 or higher
- 256 MB RAM or more
- VGA 1024x768 - DirectX9 installed
- 20 GB Hard Drive or more - split, i.e. 8GB for the system, 12GB (NTFS formatted)
- 100 Mbit Network Connection
- Fire wire (onboard or via PCMCIA card)
- For the capturing of the video signal, we recommend at least a consumer DV camera with a video out. However, we rather recommend a semi professional or professional camera with a monitor on the camera to easily follow the competitor. In addition, it is necessary to split the video signal of the camera, because at least the Video Cutter and the Expert are working with a video signal. Furthermore, devices are needed to convert the video signal to a Fire wire signal.
- We recommend using a separate NTFS formatted partition for the video capturing, as the required DirectX9 is not supported by Windows 95 or NT. The system is not tested on Windows 98.
- Although the cutting and Expert applications can be controlled with keyboard, we recommend using a mouse and a big screen.

For further details on hard and software recommendations, please refer to www.isujudgingsystem.com and the User Manual of ISUScoreFS.

### 1.1.2 ISUScoreFS without video replay

- Intel® Pentium® II processor or higher, AMD or Transmeta processor
- Microsoft® Windows® 98 or better
- 192 MB RAM or more
- VGA 1024x768
- 10 GB Hard Drive or more
- 100 Mbit Network Connection

For further details on hard and software recommendations, please refer to www.isujudgingsystem.com and the User Manual of ISUScoreFS.

### 1.1.3 ISUCalcFS

- Intel® Pentium® processor III or IV
- Microsoft® Windows® 2000 with Service Pack 3 or Windows XP

- at least 192 MB RAM (256 MB recommended)
- 280 MB free disk space
- Color monitor with at least 16-Bit graphics card
- Screen resolution 1024 x 768 pixels
- CD-ROM drive
- 100 Mbit Network Connection
- Sufficient number of USB ports

For further details on hard and software recommendations, please refer to www.isujudgingsystem.com and the User Manual of ISUCalcFS.

### 1.1.4 ISUCutterFS

- Pentium III (1 GHz) or better, AMD processor 1 GHz, Pentium-M processor 1.4 GHz or better, AMD-M processor
- Microsoft® Windows® 2000 or higher
- 256 MB RAM or more
- VGA 1024x768 - DirectX9 installed
- 20 GB Hard Drive or more - split, i.e. 8GB for the system, 12GB (NTFS formatted)
- at least 1 GB free hard disk space for 5min video capture
- 100 Mbit Network Connection
- Fire wire (onboard or via PCMCIA card)

For further details on hard and software recommendations, please refer to www.isujudgingsystem.com and the User Manual of ISUCutterFS.
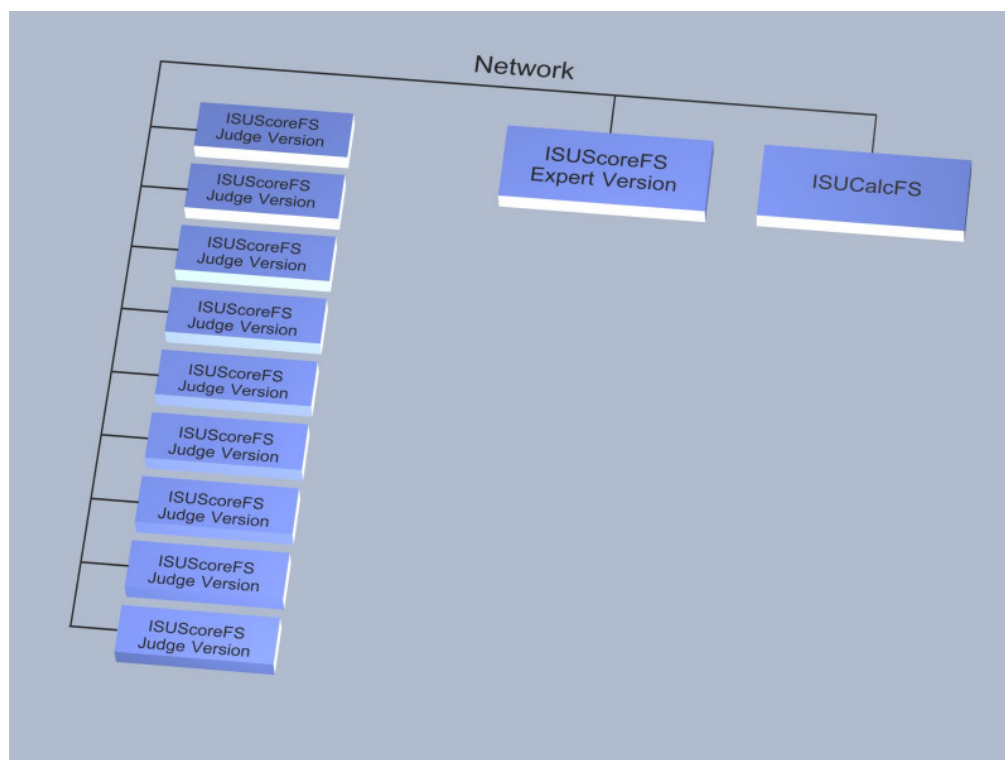
# 2 Basic Concept of the ISU Judging System



Fig. 1 System Layout of a level 2 system (no video replay)

Fig. 1 System Layout of a level 2 system (no video replay) describes the system layout of the basic New Judging System version. This version features one PC on which ISUCalcFS is run. On a second PC that is operated by the Expert, ISUScoreFS (Expert version) is run. Both PCs are connected to the Judges PCs, on which the Judge version of ISUScoreFS is run.
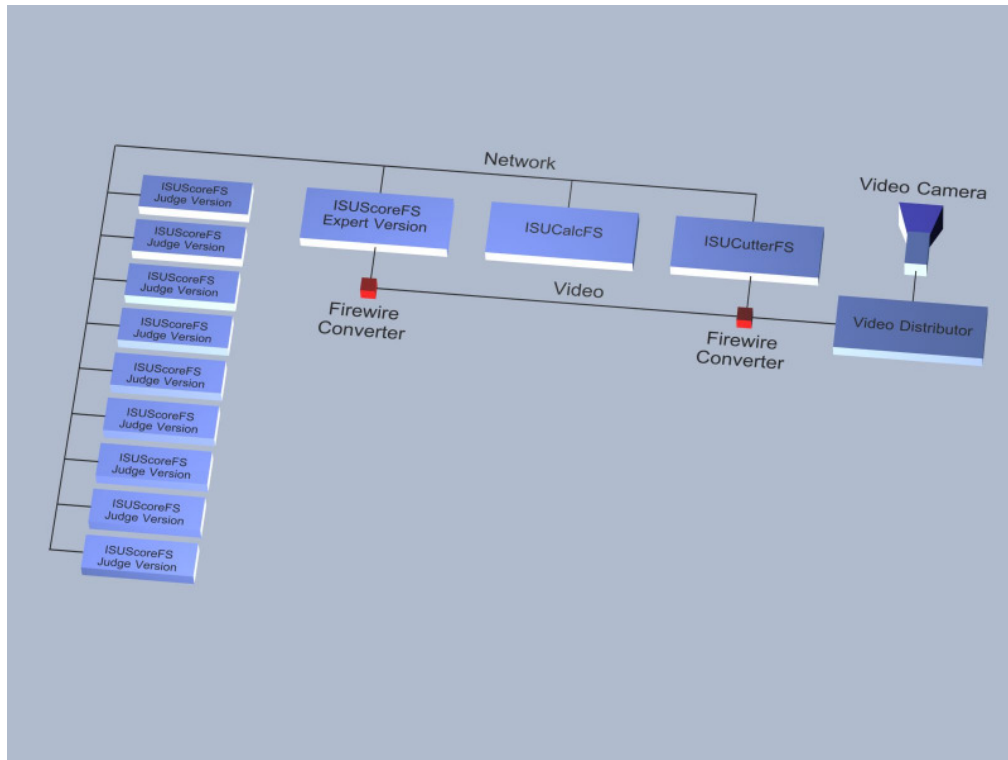
Fig. 2 System Layout incl. video replay for the Technical Panel

Fig. 2 System Layout incl. video replay for the Technical Panel depicts the version that includes Video Replay for the Technical Panel. In addition to the setup of the basic version, a video camera is connected to the system to record the Skating performances of the individual Skaters.

In order to edit (cut) the video pictures taken by the camera, an additional PC becomes necessary. The application ISUCutterFS is installed on this PC. The connection to the ISUScoreFS Expert version makes it possible to send the video image to the Expert.
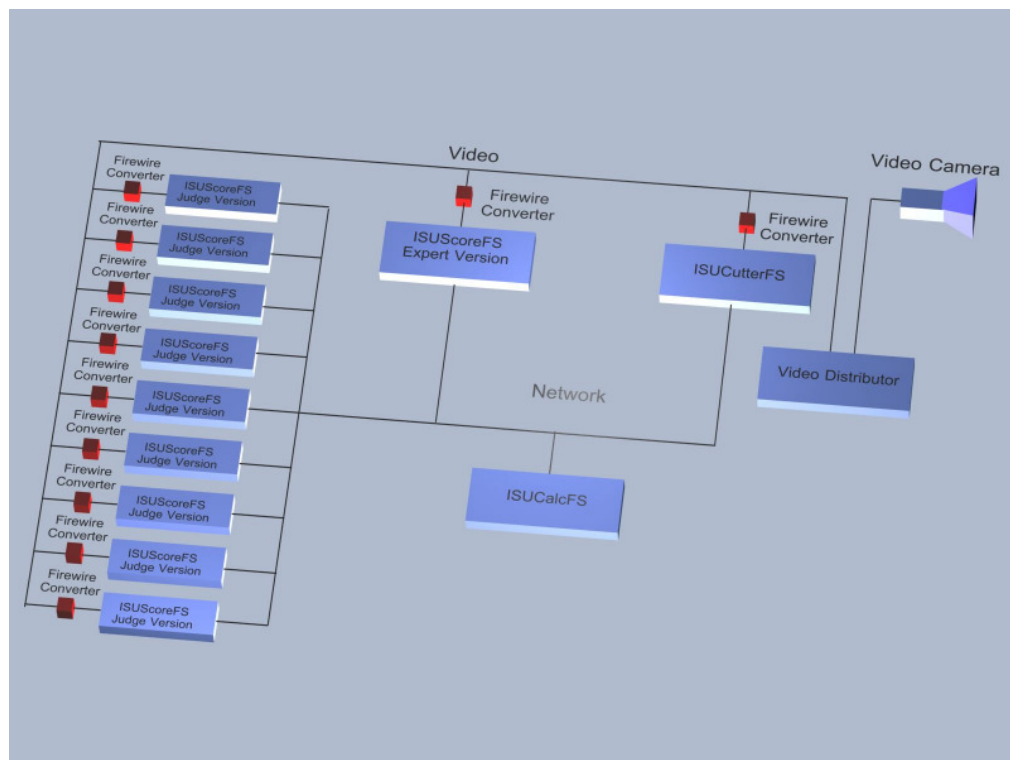
© ST INNOVATION GmbH

Fig. 3 System Layout incl. video replay for the Technical Panel and all Judges

Fig. 3 System Layout incl. video replay for the Technical Panel and all Judges shows the most advanced setup with video replay image for all Judges.

# 3 Installation

Put the CD-ROM in your CD-ROM drive, or download the software from
www.isujudgingsystem.com.

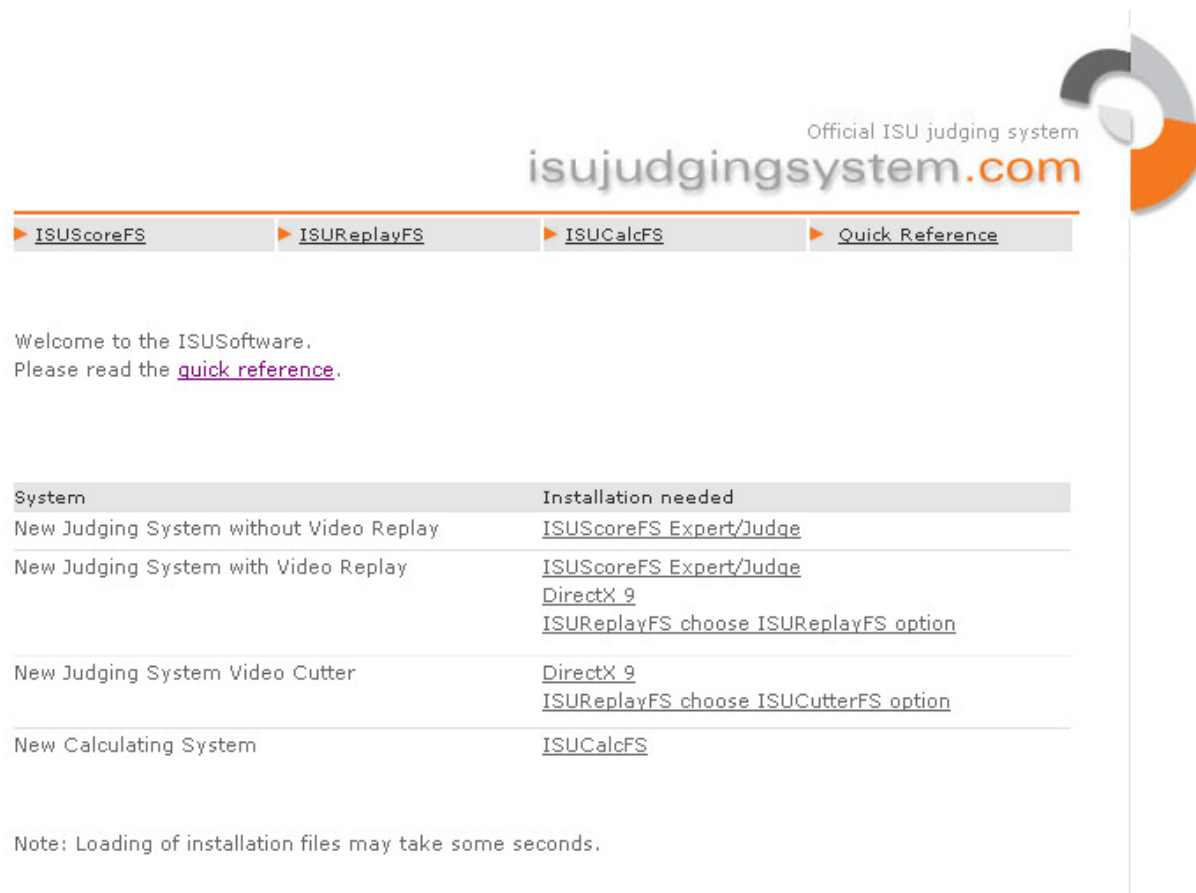The following screen is opened when you are using the setup CD:



Fig. 4 Opening Screen of the setup CD

This screen provides an overview on the installation options available. Below steps
describe the installation procedure required for the individual versions described below.

Select the setup you want to run and click on the corresponding link.

**Note:** Loading the installation files may take a few seconds.

## 3.1 Setup of the new Judging System without Video Replay

### 3.1.1 Setting up ISUCalcFS

Set up ISUCalcFS on the PC as depicted in Fig. 1 System Layout of a level 2 system (no
video replay). Run the setup of ISUCalcFS by clicking on the corresponding link of the setup
CD or run the setup provided in the donwload section of www.isujudgingsystem.com. The
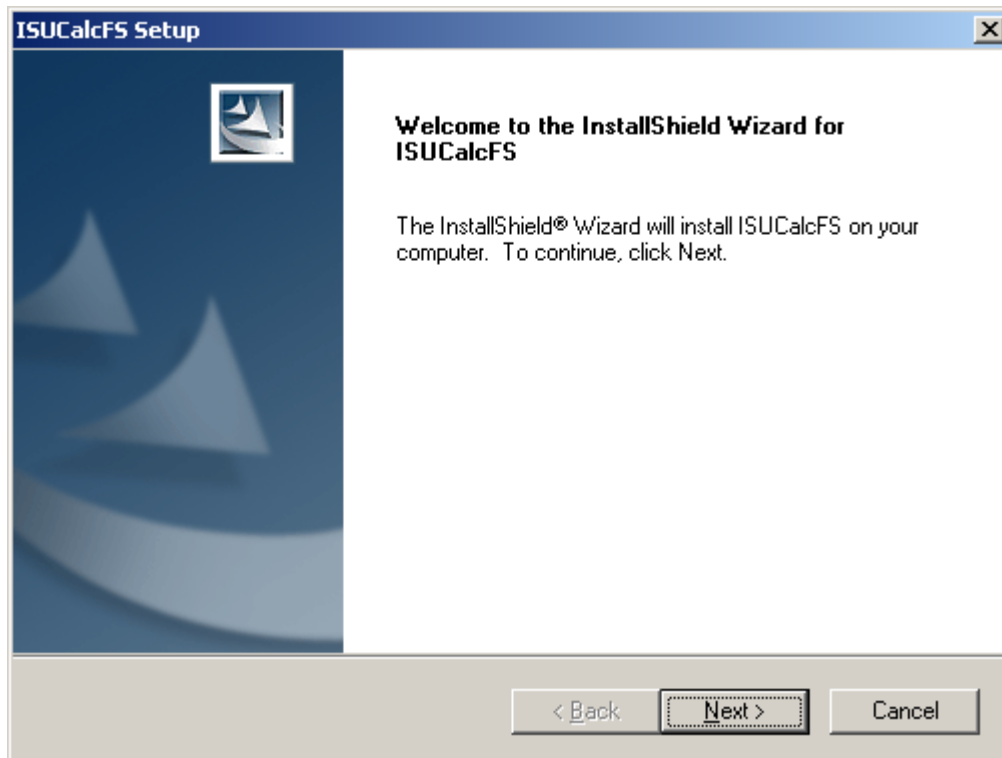install wizard is opened:

Fig. 5 ISUCalcFS setup opening screen

Click on **Next** and confirm to the license agreement by clicking the **Yes** button.

Complete the installation process as directed by the Install Wizard.

### 3.1.2 Setting up ISUScoreFS

Set up ISUScoreFS on the PC as depicted in Fig. 1 System Layout of a level 2 system (no video replay).

Run the setup of ISUScoreFS by clicking on the corresponding link (see Fig. 4 Opening Screen of the setup CD). Alternatively, you can download ISUScoreFS on www.isujudgingsystem.com and run the setup.

In the first step, you are required to agree to the license agreement. Complete the installation process as directed by the Install Wizard.

Before you can use the programs, you have to restart the PC. Follow the steps described in the window.

## 3.2 Setup of a Level 3 System (Video Replay for Technical Panel)

### 3.2.1 Installation of ISUCalcFS

Follow the steps described in section 3.1.1 Setting up ISUCalcFS (see also Fig. 2 System Layout incl. video replay for the Technical Panel).

### 3.2.2 Installation of ISUScoreFS

Follow the steps described in section 3.1.2 Setting up ISUScoreFS (see also Fig. 2 System Layout incl. video replay for the Technical Panel).

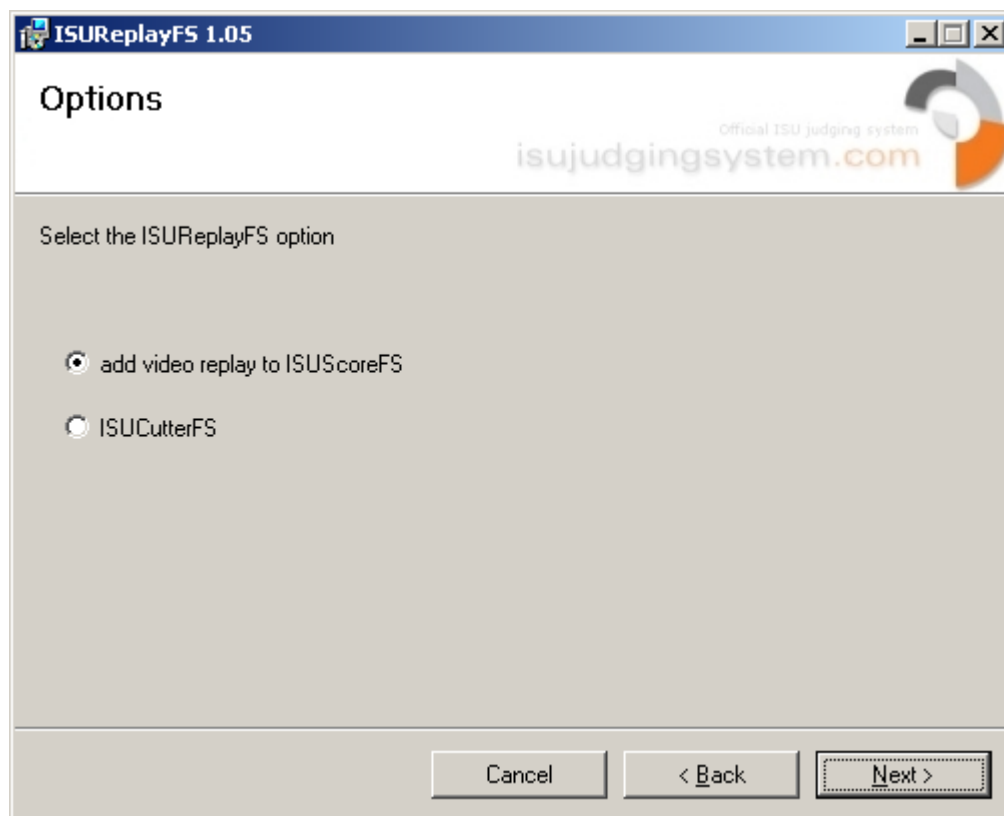Then install the ISUReplayFS option (add video replay to ISUScoreFS) on the Expert PC.



Fig. 6 Add video Replay to ISUScoreFS

Click on **Next**. Now select the directory and users who are granted the right to work with the application.

**Note:** Make sure you use the same program folder as for ISUScoreFS.

### 3.2.3 Installation of ISUCutterFS

This setup requires an additional PC to run ISUCutterFS, an application to cut, save and manage video recordings. For details, please refer to the ISUCutterFS user manual and the system layout depicted in Fig. 2 System Layout incl. video replay for the Technical Panel).

Run the setup of ISUReplayFS and select the ISUCutterFS functionality.

## 3.3 Setup of a Level 3A system (Video Replay for Technical Panel and all Judges)

Install ISUCalcFS and ISUScoreFS on the corresponding PCs (ISUCalcFS on one PC, ISUScoreFS on all Judges PCs and the Expert). For details see sections 3.1.1 Setting up ISUCalcFS and 3.1.2 Setting up ISUScoreFS.

In addition, the replay functionality of the ISUCutterFS application needs to be installed on all Judges PCs and the Technical Panel notebook (see Fig. 6 Add video Replay to ISUScoreFS). Follow the installation steps described in section 3.2.3 Installation of ISUCutterFS.

# 4 Ini File, System and Program Settings

This section gives an overview on recommended ini file, system and program settings.

## 4.1 General System Settings

In order to avoid any performance issues on your system, make sure to switch off or de-activate

- Firewall
- Virus scanner
- Automatic Windows update
- Mouse shadow.

In addition, we recommend switching off the WLAN card (if your notebooks feature WLAN and if you are not using WLAN).

Further, we recommend hiding the **Start** menu (right-click on the start bar and select **Properties.** Hide the start bar.) This is especially useful on the Judges Panels.

Switch off the sound on the system.

The recommended general IP address settings are as follows:

| | | |
|---|---|---|
| Expert: | 192.168.1.1 | |
| Backup: | 192.168.1.7 | Server Port 1007 |
| Calc: | 192.168.1.8 | Server Port 1008 |
| Cutter: | 192.168.1.2 | Server Port 1009 |
| | | |
| Judge 1: | 192.168.1.10 | Server Port 1010 |
| Judge 2: | 192.168.1.11 | Server Port 1011 |
| Judge 3: | 192.168.1.12 | Server Port 1012 |
| etc. | | |
| Referee : | 192.168.1.20 | Server Port 1020 |

## 4.2 Settings in ISUScoreFS

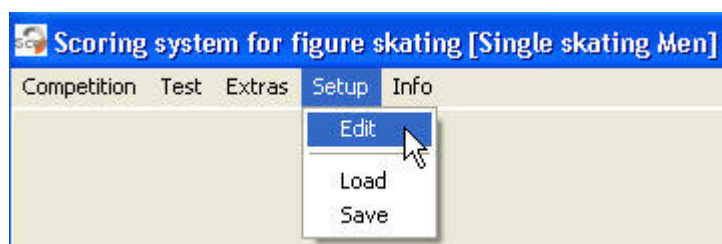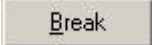Select **Edit** from the **Setup** menu.

Fig. 7 ISUScoreFS Setup

The following window is opened:



Fig. 8 System Setup (Expert mode)

The following settings are available:

| Setting | Description |
|---|---|
| Competition | Sets the competition.<br><br>**Note:** Depending on the competition type, you may need to enter addition information, such as **Gender** in Single Skating competitions or **Dance** in Compulsory Dance competitions. If ISUCalcFS is connected, the competition is automatically entered when the competition is set up and started (ISUCalcFS sends an initialisation message). |
| Data Path | Sets the folder in which the log file is saved.<br><br>Click the [Select path] button to set the path in the drop down menu. Once you have made your selection, click the [Set path] button to set the path.<br><br>**Note:** If the competition is run in the Expert mode (see **Function** setting), the competition file is also saved in this folder.<br><br>**Important:** If the competition is run in the Expert mode (with video replay), the program folder needs to be **the same** for ISUScoreFS and ISUCutterFS. |

| Function | Sets the function of the person working on this terminal. |
|---|---|
| | **None:** not used |
| | no connection settings available |
| | **Expert:** person who enters performed elements |
| | Set the number of the Referee. |
| | Set up the connection from the Expert to the clients: |
| | Referee: setup as a judge, select the number of the judge in the referee list box. |
| | Log file: If checked, a log file is written in the selected data path folder. This checkbox should always be checked. |
| | **Judge:** Set the judge number (corresponds to the Judge number in the Expert´s setup). |
| | Set up the connection to the Expert (recommended setting: TCP Client), server IP address of the Expert PC, server port in accordance with the Expert´s setup |
| | Input options of the Judge (input all, i.e. judge can enter technical elements and components, only technical elements, only components) |
| | Log file: If checked, a log file is written in the selected data path folder. This checkbox should always be checked. |
| Language | Select English or German; only switches the application language, not the data entry user interface! |
| Resolution | Sets the screen resolution |
| Video | If this checkbox is activated, the video replay is available for the judges (see Fig. 2 and Fig. 3) |
| Name of Competition | Internally used file name |
| Picture | If no video replay is available, this picture is shown in the application. |
| Break | Cancels all of the above settings |
| OK | Confirms and saves all of the above settings |

## 4.2.1 Typical Expert Settings

Standard **Expert** settings should be as follows:

Function:                Expert

Event Referee:        Enter desired Referee number (further details available in section 4.5 Individual Referee and Judges Settings)

Experts Connections: ISUCalcFS –    TCP Server              Server Port 1008

                              Backup -       TCP Server              Server Port 1007

                              Cutter -         TCP Server              Server Port 1009

                              Judge 1 -       TCP Server              Server Port 1010

Judge 2 -       TCP Server              Server Port 1011

etc.

Further details are available in section 4.1 General System Settings.

### 4.2.2 Typical Judges Panel Settings

Standard **Judges Panel** settings should be as follows:

Function:               Judge; Enter Judge number (e.g. 1)

Input Judge:            "All" (default setting)

Judges Connection:  Expert – TCPClient

Expert Server IP:      192.168.1.1   Server Port  1010 (for Judge 1, 1011 for Judge 2 etc.)

## 4.3 Settings in ISUCalcFS

The general procedure on how to set up a competition is described in the ISUCalcFS User Manual. In addition, the CalcFS User Manual provides hints on how to modify ISUCalcFS.ini.

## 4.4 Settings in ISUCutterFS

Make sure you set up a second partition on the hard disk which is used to save the video file. For further details, please refer to the ISUCutterFS User Manual.

## 4.5 Individual Referee and Judges Settings

2 very common system setup options are described in the following scenarios. If you are running your event with less than 10 Judges, simply adapt the Judge/Referee numbering accordingly.

**Scenario 1: 10 Judges, Referee = Judge 10, Referee marks to be included in calculation:**

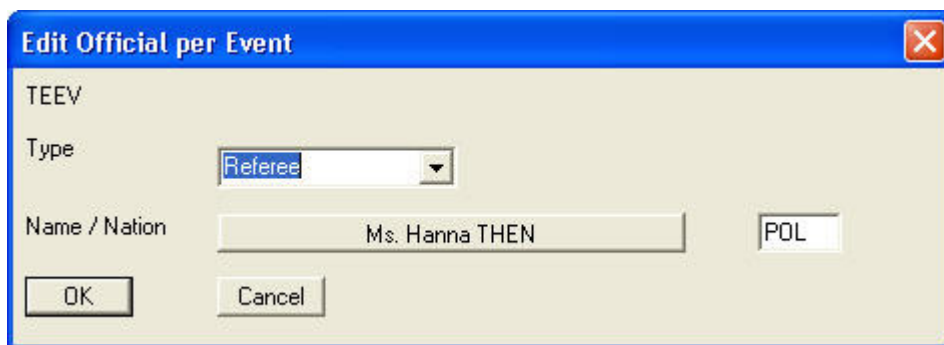1. Enter Judge 10 in ISUCalcFS being the Referee:



Fig. 9 Edit officials

2. ISUCalcFS.ini: enter Map 10 = 10 and Map15=0

```
[IRJudge1]
Alias=Scoring A
IPServer=0                                   -> recommended: 0
IPAddress=192.168.1.1                        -> IP address of Expert
IPPort=1008                                  -> IP Port of ISUCalcFS
Portnum=99                                   -> recommended: 99
' Map JudgeIndex = JudgePosition
Map01=1
Map02=2
Map03=3
Map04=4
Map05=5
Map06=6
Map07=7
Map08=8
Map09=9
Map10=10                                     -> depending on desired number
Map11=0
Map12=0
Map13=0
Map14=0
Map15=0                                      -> depending on desired number
```

3. ISUScoreFS on Expert notebook (menu `Setup->Edit`) : Enter Referee number 10
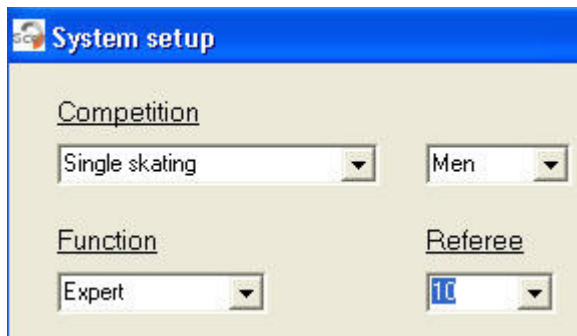


Fig. 10 System Setup (Expert)
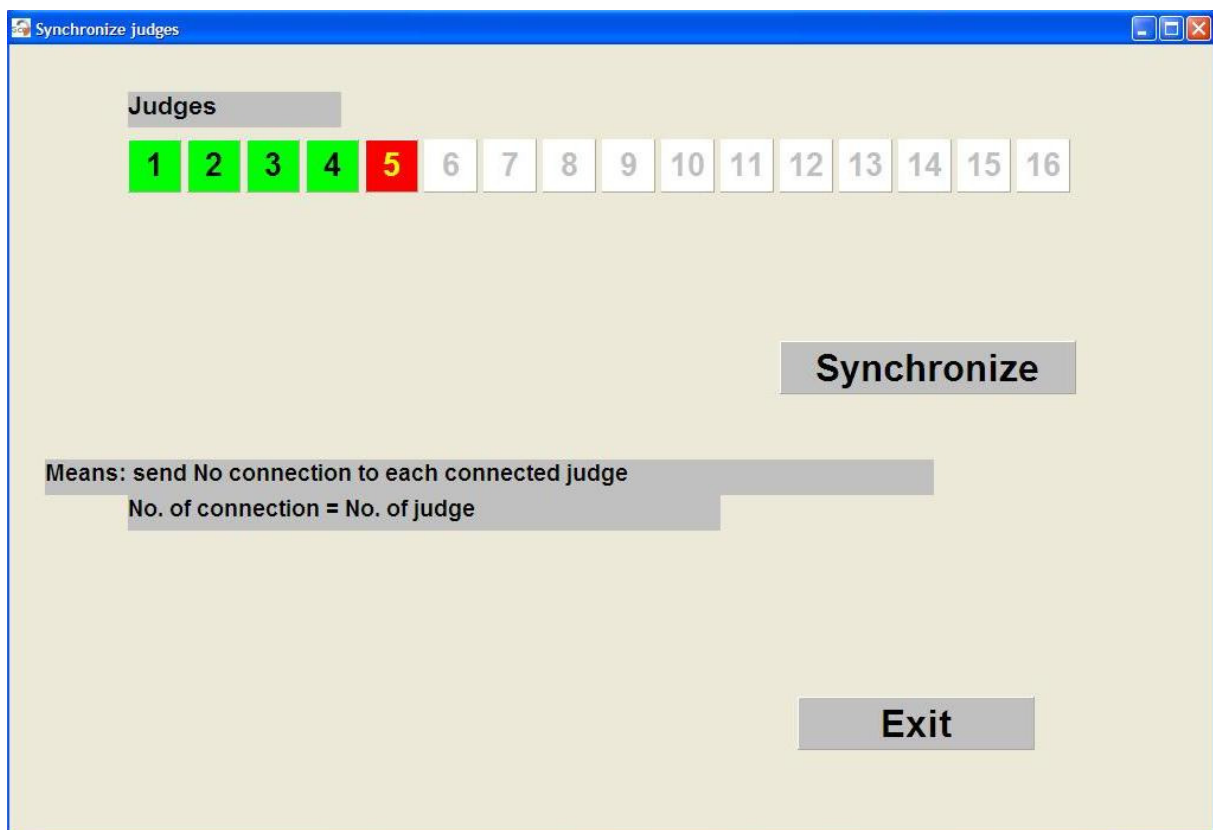
4. Select `Synchronize Judges` on the Expert



Fig. 11 System Setup (Expert)

**Scenario 2: 10 Judges, Referee = Judge 10,  Referee marks NOT to be included in calculation:**

1. Enter Judge 10 in ISUCalcFS  being the Referee (see step 1 described above)

2. ISUCalcFS.ini is modified as follows:

```
Map01=1
Map02=2
Map03=3
```

```
Map04=4
Map05=5
Map06=6
Map07=7
Map08=8
Map09=9
Map10=0                                    -> depending on desired number
Map11=0
Map12=0
Map13=0
Map14=0
Map15=10                                   -> depending on desired number
```

3. ISUScoreFS on Expert notebook (menu **Setup->Edit**): Enter Referee number 10.

4. Select **Synchronize Judges** on the Expert (see Fig. 12).

# 5 Support

For support questions, please see www.isujudgingsystem.com or contact us at support@isujudgingsystem.com.